The Distribution of an Impurity in a Single Crystal SOV/20-123-3-30/54 of Metallic Zinc of Honeycomb Substructure

the distribution of copper over the substructure elements. The diagram shows a sharp increase of the copper content from the boundary to the center of the fiber (honeycomb). According to the results of a quantitative analysis, the copper content amounts to 0.7% in the center and to 0.4% on the boundary. The results of this paper convincingly confirm the general theory that an admixture which raises the melting point of the metal is concentrated in the center of the substructure cells and that the X-ray spectral method of investigating the chemical composition of matter in a microvolume can be used for the investigation of this interesting phenomenon. The authors thank L. Ye. Loseva, who investigated the distribution of copper by means of the apparatus RSASh-2, and also M. Bocak and P.Kratochvill who prepared the zinc single crystals. There are 2 figures and 4 references, 2 of which are Soviet.

ASSOCIATION:

Prazhskiy universitet (Prague University) Kafedra fiziki metallov (Chair for the Physics of Metals), Institut metallurgii im.

A. A. Baykova Akademii nauk SSSR (Institute for Metallurgy imeni
A. A. Baykov of the Academy of Sciences, USSR)

PRESENTED: SUBMITTED:

July 10, 1958, by I. P. Bardin, Academician

July 7, 1958

Card 2/2

JELINEK, Milos; VALCUCH, Miloslav; FUKSA, Josef; ZEDEK, Miloslav

Report of the meeting of the Central Committee of the Association of Czechoslovak Matematicians and Physicists held in Prague on November 2, 1960.

VALOUCH, Miloslav

National and international organizations of physicists. Pokroky mat fyz astr 6 no.1:35-45 161.

VALOUCH, Miloslay

Anniversary of the Association of Czechoslovak Mathematicians and Physicists. Poroky mat fyz astr 7 no.1:8-14 '62.

1. Fyzikalni ustav Karlovy university, Ke Karlovu 5, Praha 2.

VALOUCH, M.

Centennial of the foundation of the Society of Czechoslovak Mathematicians and Physicists. Cs cas fys 12 no. 2:99-103 '62.

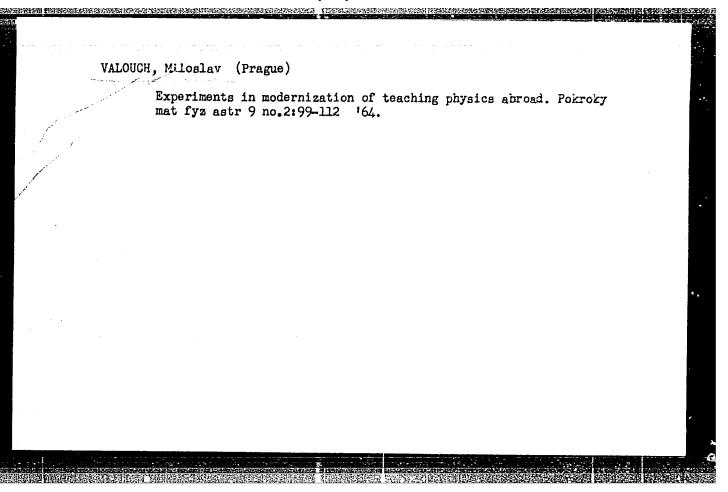
1. Fysikalni ustav university Karlovy, Praha.

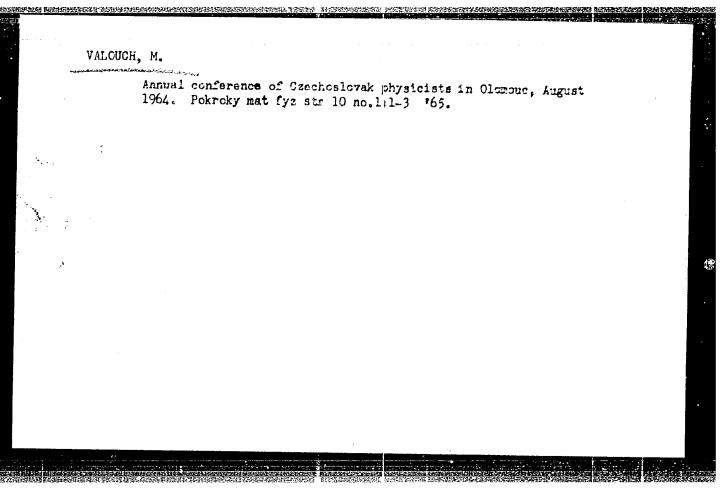
VALOUCH, Miloslav

Report on the anniversary meeting of the Association of Czechoslovak Mathematicians and Physicists. Vestnik CSAV 71 no.4:418 '62.

VALOUCH, Miloslav

Program of activities of the Association of Czechoslovak Mathematicians and Physiciats in 1963. Pokroky mat fyz astr 8 no.1:45-48 '63.





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A COLUMN DESIGNATION OF THE PROPERTY OF THE PR

S. VALOUSEK

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and Their Application, Part 2. -

Ceramics, Glass, Binders, Concretes. -Binders, Concretes and Other Building

Materials.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61758.

Author : S: Valousek.
Inst : Not given.

Inst : Not given.
Title : Modernization of Cement Fabrication.

Orig Pub: Stavivo, 1958, 36, No 2, 54 - 57.

Abstract: A review of measures for the modernization of

separate stages of cement fabrication is carried out. Questions concerning the development of the raw material transportation, the preparation and milling of materials, the homogenizing of the mixture, the firing, the clinker

Card 1/2

CZECHOSLOVAKIA / Chemical Technology, Chemical Products and Their Application, Part 2. - Ceramics, Glass, Binders, Concretes. - Binders, Concretes and Other Building Materials.

Abs Jour: Ref Zhur-Khimiya, No 18, 1958, 61758.

Abstract: and addition milling, the control of the product properties, the transportation within the factory, the automatization of production, the electric equipment and the effective dust removal are discussed.

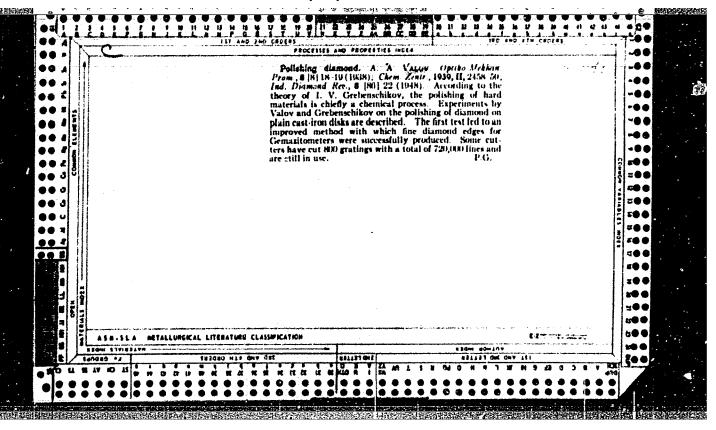
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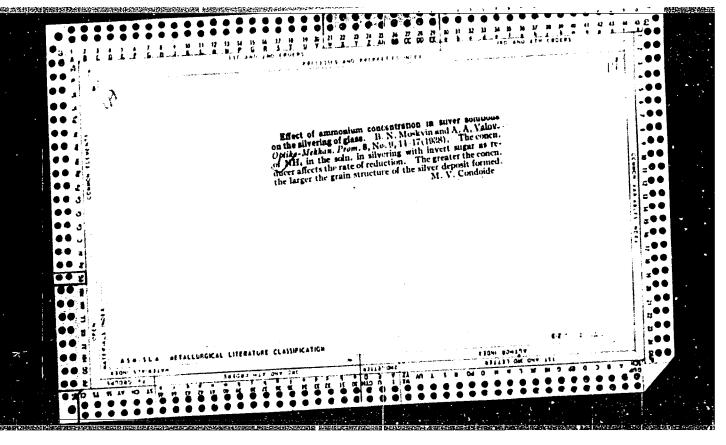
43

VALOUSEE, S.

Transportation of materials at limekilms. p. 343. STA IVO. (Ministerstvo stavebnictvi) Praha. Vol. 32, no. 10, Oct. 1954.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956





32601

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8/137/61/000/011/034/123 A060/A101

to the control of the

AUTHORS:

Valov, A.N., Latyshev, V.K., Lyndin, V.V., Pliskin, Yu.S.

TITLE:

Application of radiometric transducers in systems for regulating the level of molten metal in crystallizers of continuous casting

machines

FERIODICAL:

Referativnyy zhurnal. Metallurgiya, no. 11, 1961, 67, abstract 11V392 (V sb. "Radioakt. izotopy i yadern, izlucheniya v nar. kh-ve SSSR. v. 3", Moscow, Gostoptekhizdat, 1961, 147 - 149)

TEXT: The authors describe the principle of operation of a level regulator. The sensor is in the form of a source and receiver of radioactive radiation, which are situated on the opposite sides of the object of measurement. The source is Co^{60} and the receiver is a gaseous ion counter of the type CM-1 Γ (SI-10). A short description is given of the system of automatic control for the level of the molten metal in the crystallizer of a vertical machine for the continuous casting of steel in ingots of small cross section at the plant imeni the First of May; of a machine for semi-continuous casting of cast iron tubes of the Sinarskiy tube factory; of a machine installed at the Bezhitsa plant. In all the cases Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858510011-1"

Application of radiometric transducers ...

32601 S/137/61/000/011/034/123 A060/A101

the regulation proceeds by acting upon the rate of drawing out the article teing cast. At the Novo-Tul'skiy metallurgical plant a system was tried out for the automatic regulation of the metal in the crystallizer by varying the quantity of metal fed into the crystallizer.

Yu. Nechkin

[Abstracter's note: Complete translation]

Card 2/2

8/137/61/000/011/096/123 A060/A101

AUTHORS:

Vasichev, B. N., Valov, A. N., Pliskin, Yu. S.

TITLE:

Measurement of small radioactive metal samples

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 11, 1961, 36, abstract 111247 (V sb. "Radioakt. izotopy i yadern. izlucheniya v. nar. kh-ve SSSR V. 3", Gostoptekhizdat, Moscow, 1961, 210-213)

The authors set forth the principles of construction of an apparatus TEXT: for measuring small radioactive samples of metal. Gas ionization counters have a counting efficiency of $\sim 1\%$ at a \dot{V} -quantum energy level of 1 Mev. When the specimen is completely encompassed by the radiation detector ($\Omega=4\,\mathrm{T}$), an increase in the counting efficiency may be attained by raising the number of counters encompassing the specimen, but this leads to a reduction in the reliability of the apparatus and to an increase of background. Greater possibilities are provided by the use of scintillation counters possessing a high counting efficiency. One of the best scintillants is NaI, activated with Tl. In the apparatus worked out scintillation counters were used as the radiation detectors, utilizing large NaI(T1) crystals (d = 90 mm, L = 85 mm) and Φ 3Y-24 (FEU-24)

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858510011-1" Measurement of small radioactive metal samples

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photomultipliers. The scintillation counting efficiency of the NaI(T1) crystal of indicated dimensions constitutes $\sim 80\%$ in registering the V-radiation of co^{60} . The apparatus uses a circuit with two 2%-counters with a disk-shaped specimen between them and a delay for the pulses of the second $2\hat{\ell}$ -counter. The use of two 2%-counters makes it possible to increase the count from the specimen, and the use of the delay - to select the upper threshold of discrimination corresponding to an energy of 1.4 Mev. Sources of background in the scintillation counter may be dark noise of the photomultiplier, radioactive impurities, the natural radioactivity of the materials, and cosmic radiation. Various methods of background-suppression are described. It is pointed out that the apparatus may be used for determining the activity of samples of metals containing the isotopes Co60, Ru103 and others. To check the stability of operation of the apparatus, the counting rates from a specimen containing the Co60 isotope were measured for 8 hours. The photomultiplier was fed from a high-voltage rectifier of the counting circuit "Floks". The counter and the electronic block of the apparatus were connected to the power grid through a ferroresonant voltagestabilizer of the COM-220-0.5 (SEI-220-0.5) type. The apparatus elaborated makes it possible to carry out the radiometry of metal specimens having a specific radioactivity 5 times lower than that admissible according to (USSR) sanitary norms. [Abstracter's note: Complete translation]

Card 2/2

PLISKIN, Yuriy Semenovich; VALOV, Aleksandr Nikolayevich; TARSHIS,
D.M., red.izd-va; ISLENTIEVA, P.G., tekhn. red.

[Methods and equipment for measuring low radioactivity
in metal and slag specimens] Metody i apparatura dlia ismereniia malykh radioaktivnostei prob metalla i shlaka.

Moskva, Metallurgizdat, 1963. 132 p. (MIRA 16:9)

(Matallurgy) (Radiometry)

(Radioisotopes--Industrial applications)

5/073/63/029/001/006/009 A057/A126

AUTHORS:

Rumyantseva, G.V., Valov, A.N.

TITLE:

Electromotive forces and electrode potentials in flux-fusions

PERIODICAL:

Ukrainskiy khimicheskiy zhurnal, v. 29, no. 1, 1963, 35 - 38

TEXT: Electrode potentials of Zn, Sn, and Fe dissolved in ZnCl₂ · 2NaCl fusions were measured at temperatures of from 450 to 600°C and the emf of galvanic cells Fe/flux-fusion/Sn determined at 320°C in dependence on the composition of the flux-fusion. Decomposition potentials of pure fused Zn, Sn, and Fe chloride were calculated from thermodynamic literature data in dependence on temperature. The sequence of the metals changes in the temperature interval 578 - 1,373°K. Up to 1,150°K the sequence is Zn, Sn, Fe, while at 1,150°K and above the sequence is Zn, Fe, Sn. The present investigations are of interest for electrolytic tin-plating of sheet iron which method is sometimes more suitable than the common hot method. The potential measurements were carried out with a sodium/ /tin glass-electrode as reference electrode in inert gas atmosphere. The emf was measured by means of an MNO 2 (MPO2) oscillograph. The following observations

Card 1/2

Electromotive forces and electrode potentials in

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were made with the cell Na-Sn/glass/ZnCl $_2$ · 2NaCl-MeCl $_x$ /Me, where MeCl $_x$ stands for FeCl₂/Fe(+), SnCl₂/Sn(+), or ZnCl₂/Zn(+): The electrode potentials of iron and tin are equal (1.77 v) at 450°C. The potential of the latter is more influenced by the temperature. Thus the potential of tin at 470°C and above becomes more negative than the potential of iron. Measurements of the emf in 6 different cells with varying flux-fusion composition are in good agreement with data calculated from the potentials of the pure fused chlorides for the sequence Zn, Sn, Fe. The sign of the electrodes and the change of the emf depend on the composition of the flux-fusion, apparently due to complex-formation. There are 2 figures and 1

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy)

SUBMITTED:

September 30, 1960

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858510011-1" MURATOVA, M.A.; TAKUBENKO, Z.K.; VALOV, B.I.

Investigating jute and hemp fiber emulsifying processes. Tekst.
prom. 18 no.10:26-30 0 '58. (MIRA 11:11)
(Hemp) (Jute) (Textile chemistry)

CONTROL OF THE CONTRO

VALOV, B.I., nauchnyy sotrudnik; SOBOLEV, S.V.

Simplified method for making rope yarn. Tekst.prom. 20 no.6:25-27 Je 160. (MIRA 13:7)

1. TSentral'nyy nauchno-issledovatel'skiy institut l'nyanogo volokna (for Valov). 2. Vedushchiy inzhener TSentral'nogo Konstruktorskogo byuro tekstil'nogo mashinostroyeniya (for Sobolev).

(Rope) (Spinning)

THE PROPERTY OF THE PROPERTY O

ZAV YALOVA, L.V., mladshiy nauchnyy sotrudnik; Prinimali uchastiye: MARKOVA, R.V.; VALOV, B.I., mladshiy nauchnyy sotrudnik

Continuous line for the preparation of short jute fibers for spinning. Nauch.-issl.trudy TSNIIIV 17:98-113 62. (MIRA 16:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut legkogo i tekstil'nogo mashinostroyeniya (for Markova). 2. TSentral'nyy nauchno-issledovatel'skiy institut promyshlennosti lubyanykh volokon, Moskva (for Valov).

137-58-5-10971

VALOV, G.G. Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 5, p 296 (USSR)

AUTHORS: Valov, G.G., Dobrzhanskiy, A.V., Zhukhovitskiy, A.A.

Analysis by Beta-ray Reflection (Analiz metodom otrazheniya TITLE:

B -izlucheniya)

Tr. Nauchno-tekhn. o-va chernoy metallurgii. Ukr. resp. pravl., 1956, Vol 4, pp 22-29. Comments pp 30-31 PERIODICAL:

A description is presented of an instrument for analysis of the percentage content of heavy elements by eta-ray reflection. ABSTRACT:

When radioactive radiation passes through a substance, the interaction of eta particles with the atomic nuclei of the substance causes the particles to be deflected from their original direction. The intensity of the reflected β radiation (RI) is approximately proportional to $Z^{2/3}$, where Z is the charge on the nucleus or the atomic number of the element. Consequently, the RI may be employed to judge the composition of the substance. Tl²⁰⁴, with a half life of 2.7 years, is used as a source of B radiation. 20 millicuries of T1204 are placed on the bottom of a Pb cup which

directs the beam of electrons (E) upward onto the specimen under

investigation. The reflected E pass through a filter to an

Card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858510011-1"

• 137-58-5-10971

Analysis by Beta-ray Reflection

ionization chamber with a cylindrical tinplated brass body 300 mm in diameter and height. The collecting electrode, in the form of a centrally-positioned pin, is introduced into the chamber through a polystyrene insulator and is under a potential of +300 v relative to the housing. The thickness of the filter is selected experimentally so that the majority of the E reflected from the heavy element will pass through it, and the E reflected from the rest of the substance will be retained therein. The result may thus be attained that the magnitude of the RI is in linear relation to the content of heavy element. The RI passing through the filter ionizes the air in an ionization chamber. The resultant weak ionizing current is amplified and delivered to a galvanometer. To prepare the specimen, 10 or 20 g of the material, reduced to powder for analysis in the usual way and screened through a 100-mesh sieve, is sifted into a metal adapter, the bottom of which may be made of any material transparent to β rays, e.g., tracing cloth. The powder is gently packed by tapping the adapter against the table. Analysis is performed either by plotting a graduated curve against standard specimens or by comparison with a standard. The method has been used specifically for determination of Fe in Fe ore and of W in high-speed steel. The employment of this method in analysis of Fe ore shows that its accuracy corresponds to that of rapid chemical analysis, but the time is reduced to 1.5-2.0 min. The method is simple in execution and

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137-58-5-10971

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Analysis by Beta-ray Reflection

does not consume any reagents whatever. The instrument is compact and can be used anywhere. The immediate and prospective value of this new method are noted in the discussion.

1. Beta rays--Reflection 2. Heavy elements--Analysis

T.M.

Card 3/3

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 7, p 108 (USSR)

AUTHOR: Valov, G. M.

TITLE: The Bending and Torsion of a Rectangular Beam Loaded on a Side Surface (Izgib i krucheniye pryamougol'noy balki, nagruzhennoy na bokovoy poverkhnosti)

PERIODICAL: V sb.; Tr. nauch. konferentsii Stalinskogo ped. in-ta. Nr 1. Kemerovsk. kn. izd-vo, 1956, pp 302-307

ABSTRACT: The author discusses the possibility of the solution of a problem of the bending and torsion of a rectangular parallelepiped by forces applied to its side surface with the help of Fourier double series; the coefficients in these series must be determined from infinite systems of linear equations.

B. K. Prokopov

Card 1/1

124-58-6-6940

Translation from: Referativnyy zhurnal, Mekhanika, 1958. Nr 6, p 97 (USSR)

AUTHOR: Valov, G.M.

TITLE:

On the Equilibrium of a Rectangle Under Mixed Boundary Conditions (K zadache o ravnovesii pryamougol'nika pri smeshannykh granichnykh usloviyakh)

PERIODICAL: V sb.: Issledovaniya po teorii sooruzheniy. Nr. 7. Moscow, Gosstroyizdat, 1957, pp 401-411

ABSTRACT:

A study is made of two cases of the two-dimensional problem of the theory of elasticity as applied to a rectangle having mixed boundary conditions, these conditions being symmetrical with respect to either axis of symmetry of the rectangle. In the first problem, normal stresses and displacements are given along two edges of the rectangle, parallel to each other, the other two edges being unstressed. In the second problem, on two parallel edges the displacements are given, the other two sides again being unstressed. The problems are solved by the Fourier method. In the first problem the constants of integration are determined directly. As a numerical example the author examines the problem of the compression of a square by a uniform load. In the second

Card 1/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858510011-1" 124-58-6-6940

On the Equilibrium of a Rectangle Under Mixed Boundary Conditions

problem, determining the constants of integration amounts to solving infinite systems of linear equations. For this problem no numerical example is given. The author does not mention the paper by V.K.Prokopov (Prikl. matem. i mekhan., 1952, Vol 16, Nr 1) which deals with the two-dimensional problem of a rectangular strip the short edges of which are free of displacements.

B.L.Abramyan

1. Elasticity--Mathematical analysis

Card 2/2

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858510011-1"

VALOV, G.M., Cand Phys Math Sci -- (diss) "Certain problems concerning the eleastic deformation of triangular parallelepiped and circular cylinder." Mos, 1958, 6 pp (Mos Order of Lenin and Order of Labor Red Banner State Univ im M.V. Lomonosov) 150 copies (KL, 50-58, 119)

- 5 -

"APPROVED FOR RELEASE: 08/31/2001 C

CIA-RDP86-00513R001858510011-1

16(1) 16,7300

AUTHOR:

Valov, G.M.

SOV/155-58-4-14/34

TITLE:

Torsion of a Rectangular Bar by Forces Acting on its Lateral Face (Krucheniye pryamougol'nogo sterzhnya silami, priloz-

hennymi k yego bokovoy poverkhnosti)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye

nauki, 1958, Nr 4, pp 81 - 86 (USSR)

ABSTRACT:

The author considers the tersion of a rectangular bar which is stressed so that its deformations are symmetric with respect to the plane which is laid through the center of the bar vertical to the bar axis. The problem is to determine the displacements u,v,w which in $-a \leqslant z \leqslant a$, $-b \leqslant y \leqslant b$, $-c \leqslant z \leqslant c$ satisfy the homogeneous Lamé equations

 $\frac{1}{1-20}$ $\frac{30}{3x}$ + $\Delta u = 0$ etc for v and w, and 18 boundary con-

ditions on the bar surface, e.g.

Card 1/3

6

'Torsion of a Rectangular Bar by Forces Acting on its Lateral Face

sov/155-58-4-14/34

$$2G\left(\frac{\partial y}{\partial y} + \frac{6^{\circ}}{1-2\sigma^{\circ}}\theta\right) = \frac{+}{2}f_1(x,z) \quad \text{for } y = \pm b$$

$$G\left(\frac{\partial \nabla}{\partial z} + \frac{\partial W}{\partial y}\right) = \varphi(x,z) \qquad \text{for } y = \pm b$$

$$G\left(\frac{\partial \mathbf{y}}{\partial \mathbf{x}} + \frac{\partial \mathbf{u}}{\partial \mathbf{y}}\right) = 0 \qquad \text{for } \mathbf{y} = \mathbf{t} \ \mathbf{b} \quad \text{etc.}$$

Here θ is the volume deformation, Δ the Laplace operator, θ Poisson coefficient, G modulus of shear. It is assumed that the functions f_1 , ϕ etc., which are even because of the symmetry, can be represented by double Fourier series

$$f_1(x,z) = \sum_{n=1,3,...}^{\infty} \lambda_p f_{np}^{(1)} \sin \frac{n \sqrt[n]{z}}{21} \cos \frac{p \sqrt[n]{x}}{a}$$

The author uses the solution of Papkovich-Neuber, completes it by purely harmonic solutions of the Lame equations and obtains

Card 2/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858510011-1"

Torsion of a Rectangular Bar by Forces Acting on SOV/155-58-4-14/34 its Lateral Face

for u, v, wery long, explicitly given expressions with double series in trigonometric and hyperbolic functions. The coefficients must be calculated from infinite linear systems of equations. It is asserted that, if the free terms of the systems possess a certain order, the systems have a unique solution.

There are 1 figure, and 4 references, 2 of which are Soviet, 1 Italian, and 1 American.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova

(Moscow State University imeni M.V.Lomonosov)

June 4, 1958 SUBMITTED:

Card 3/3

CIA-RDP86-00513R001858510011-1" APPROVED FOR RELEASE: 08/31/2001

17

16(1) 16 7300

Valov, G.M. AUTHOR:

sov/155-58-4-15/34

TITLE:

The Problem of Equilibrium of a Rectangular Parallelepiped, on the Basal Surfaces of which the Normal Stresses and the Tangential Displacements, and on the Lateral Face of Which the Stresses are Given (Zadacha o ravnovesii pryamougol'nogo parallelepipeda, na osnovaniyakh kotorogo zadany normal'nyye napryazheniya i kasatel'nyye peremeshcheniya, a na bokovoy poverkhnosti - napryazheniya)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1958, Nr 4, pp 87 - 92 (USSR)

ABSTRACT:

The problem leads to the same system of equations as in the preceding paper of the author with somewhat other boundary conditions. The same way of solution is used and infinite systems for the calculation of coefficients are given.

H.M. Filonenko-Borodich, Ye. S. Kononenko, and P.F. Penkovich

eare mentioned in the paper. .There are 5 Soviet references.

June 4, 1958

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova

(Moscow State University imeni M.V. Lomonosov)

SUBMITTED:

Card 1/1

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001858510011-1"

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AUTHOR: Valov, G.M.

5/155/59/000/02/019/036

TITLE: The Problem of the Compression of a Rectangular Parallelepiped, on the Basal Planes of Which the Normal Displacements and the Tangential Stresses, and on the Lateral Surface of Which the Stresses are Given

PERIODICAL: Nauchnyye doklady vysshey shkoly. Fiziko-matematicheskiye nauki, 1959, No. 2, pp. 107-112

AND STATEMENT PROGRAMMENT AND STATEMENT OF THE PROGRAMMENT OF THE PROG

TEXT: The author determines the projections of the displacement vector u(x,y,z), v(x,y,z), w(x,y,z), which in the rectangle $-a \le x \le a$, $-b \le y \le b$, $-1 \le z \le 1$ satisfy the Lamé equations

(1)
$$\frac{1}{1-2\sigma} \frac{\partial \theta}{\partial x} + \Delta u = 0 \quad \text{etc} ,$$

where θ is the volume deformation, Δ the Laplace operator and δ the Poisson coefficient, while the boundary conditions mentioned in the title are satisfied on the surface of the rectangle. It is supposed that the deformation is symmetric with respect to the planes x=0 and y=0, and that the functions occurring in the boundary conditions are representable by Fourier series. For the solution the author sets up u,v,w in the form of very complicated double Fourier series with unknown coefficients. The series are Card 1/2

69777

The Problem of the Compression of a Rectangular S/155/59/000/02/019/036 Parallelepiped on the Basal Planes of Which the Normal Displacements and the Tangential Stresses, and on the Lateral Surface of Which the Stresses are Given

chosen so that (1) and a part of the boundary conditions are immediately satisfied. For the determination of the coefficients the residual boundary conditions give an infinite system of equations which is regular and uniquely solvable, provided that the Fourier coefficients in the boundary conditions decrease quickly enough.

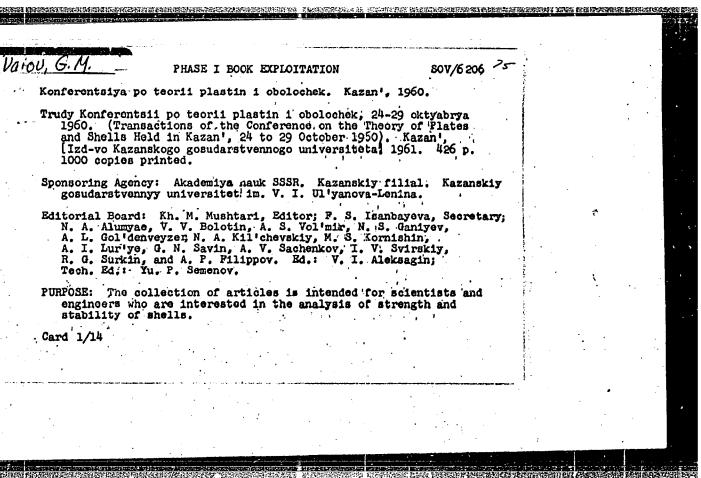
M.M. Filonenko-Borodich and Ye.S. Kononenko are mentioned in the paper. There are 9 references: 7 Soviet, 1 Chinese and 1 French.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova (Moscow State University imeni M.V. Lomonosov)

SUBMITTED: January 12, 1959

4

Card 2/2



Transactions of the Conference (Cont.)

SOV/6206

COVERAGE: The book is a collection of articles delivered at the Conference on Flates and Shells held in Kazan' from 24 to 29 October 1960. The articles deal with the mathematical theory of plates and shells and its application to the solution, in both linear and nonlinear formulations, of problems of bending, static and dynamic stability, and vipration of regular and sandwich plates and shells of various chapes under various loadings in the elastic and plastic regions. Andlyzis it made of the bohavior of plates and shells in fluids, and the effect of creep of the material is considered. A number of papers discuss problems associated with the development of effective mathematical methods for solving problems in the theory of shells.

Some of the reports propose algorithms for the solution of problems with the add of electronic computers. A total of one hundred reports and notes were presented and discussed during the conference. The reports are arranged alphabetically (Russian) by the author's name.

Card 2/14

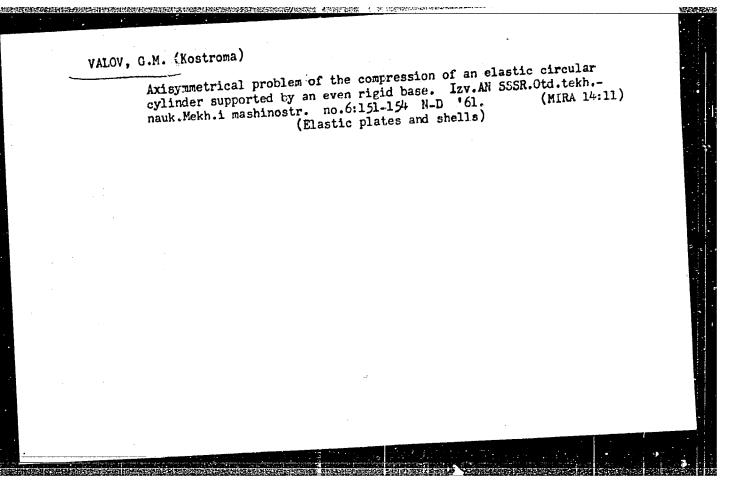
Transactions of the Conference (Cont.)		SOV/6	206		
Borovskiy, P. V. Application of the Met to the Analysis of Parallelogram-Shap	hod of Net ed Plates		33	15 17 	
Borodachev, N. M. Vibration of Circular Plates Under the Action of Cyclic Loa	and Annular	4	37		
Bulgakov, V. N. Application of Numerica the Analysis of a Toroidal Shell	1 Methods to	•	/41		
Burmistrov, Ye. F. Bending of a Cylindr Shell of Variable Thickness	ical Orthotropic	•	46	:	
Vallner, Kh. A. Determination of the Lo Capacity of Annular Rigid-Plastic Pla Small Deflections	ad-Carrying tes Under	•	53		€;
Valov. G. M. Bending of a Thin Rectangu Plate With Arbitrarily Distributed Tr	lar Cantilover ansverse Loading		60		(
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AUTHOR:	Valov, G.M.	
TITIL:	Bending of a thin rectangular cantilevered plate by all an innumeral descriptions all of transverse local	
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engel (1900) og ett ligtergerigerer.	ings is your operated as a sum of two terms. The	

VALOV, G.M. (Kostroma)

A basic mixed problem in the theory of elasticity for a rectangle. Izv. AN SSSR.Otd.tekh.nauk.Mekh.i mashinəstr. no.3:133-142 My-Je '61. (MIRA 14:6)

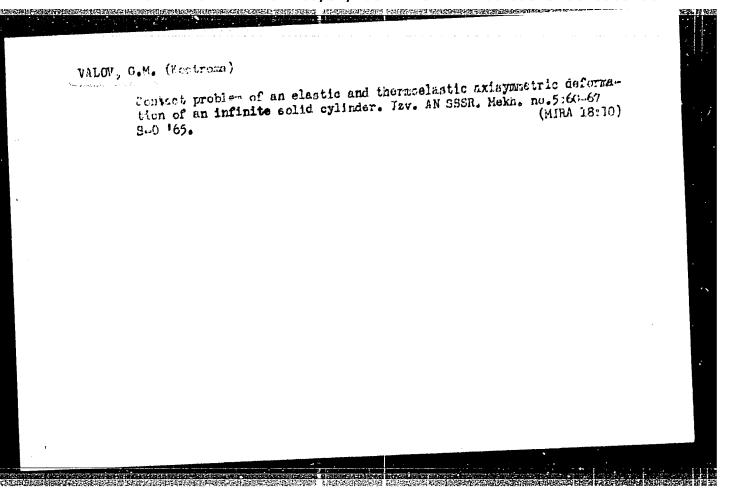
(Elastic plates and shells)



VALOV, G.M. (Kostroma)

Elastic and thermoelastic axisymmetric deformation of an infinite layer. Izv.AN SSSR. Mekh.i mashinostr. no.1:54-60 Ja-V 164.

[MIR4 17:43]

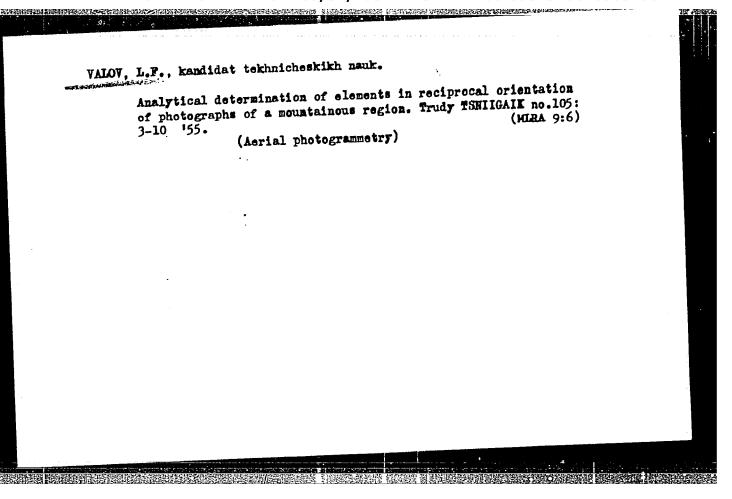


VALOV, L. F.

VALOV, L. F. -- "Determination of Elements of Relative Orientation for Pictures of Mountainous Regions." Sub 4 Apr 52, Moscow Inst of Engineers of Geodesy, Aerial Photography and Cartography. (Dissertation for the Degree of Candidate in Technical Sciences.)

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SO: VECHERNAYA MOSKVA, January-December 1952



BORDADYMOV, A.A.; BRODSKIY, M.B.; VALOV, M.S.

Changes occurring in the shoe upper sides. Kozh.-obuv. pron.
(MIRA 18:6)

MEDZHIBOZHSKIY, M.Ya.; PRIVAIOV, M.M.; GUROV, A.K.; MOKRUSHIN, V.V.;
GRITSKOV, V.S.; Pricimali uchastiye: TSYMBAL, V.P.; BYCHKOV, P.M.;
KURGUZKIN, V.P.; VALOV, M.Ye.; SHCHKOLKIN, M.S.

Making a combined use of compressed air in a high-capacity
open-hearth furnace. Stal' 22 no.10:894-900 0'62. (MIRA 15:10)
(Open-hearth furnaces) (Compressed air)

ZYUZIN, Vladimir Ivanovich; GURVITS, A.I., red.; VALOV. N.A., red.; VAGIN, A.A., red.izd-va; ATTOPOVICH, M.K., tekhn.red.; MIKHAYLOVA, V.V., tekhn.red.

是的影響的學術,所有的表現的學術的學術的學術,也可以使用的學術學術學學的學術學術學學的學術,所以使用的學術學術學的學術學術學學學學學學學學學學學學學學學學學學學

[Mochanical equipment of metallurgical plants; manual for construction engineers and mechanics] Mekhanicheskoe oborudovanie metallurgicheskikh tsekhov; posobie dlia konstruktorov i mekhanikov. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1960. 334 p.

(Metallurgical plants -- Equipment and supplies)
(Rolling mills)

NESHCHERET, Illarion Illarionovich: VALOV, N.A., red.; SIDOROV, V.N., red.izd-va; VAYNSHTEYN, Ye.B., tekhn.red.

HOROMOTOR EXPLESSED OF THE PROPERTY OF THE PRO

[Mechanical equipment of sintering plants] Mekhanicheskoe oborudovanie aglomeratsionnykh fabrik. Moskva, Gos.nauchno-tekhn. izd-vo lit-ry po chernoi i tavetnoi metallurgii, 1961. 386 p. (MIRA 14:3)

(Ore dressing--Equipment and supplies) (Sintering)

ROZOV, B.V., inzh.; BUDKOV, V.Ye., Inzh.; VALOV, N.A., inzh.

Development and realization of safety measures for mining seams in the Kizel Basin which are subject to bumps. [Trudy] VNIMI nc.49: 164-180 '62. (MIRA 17:4)

1. Kombinat Kizelugol' kizelovskogo kamennougol'nogo basseyna.

LEYSHMAN, M.B.; BALASHOV, M.Ye.; AFANAS'YEV, A.S.; MIKHELEV, V.M.;

TAKHVANOV, G.I.; SHKHALAKHOV, Yu.Sh.; SANNIKOV, Yu.I.; SLAVIN, A.A.;

BEYRAKH, Z.Ya.; KAPLINSKIY, B.I.; ORLOV, O.A.; PEVZNER, V.V.;

VALOV, O.V.; KIREYEV, V.V.

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Inventions. Avtom. i prib. no.3:76-77 J1-S '64.

(MIRA 18:3)

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AGC NR. AP6032585 SOURCE CODE: UR/0062/66/000/008/1334/1339	
Valoy P. I.; Blyumberg, E. A.; Emanuel', N. M.	
ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut	
TITLE: Kinetics and mechanism of the combined oxidation of propylene	
and acetaldehyde	
source: An SSSR. Izvestiya. Seriya khimicheskaya, no. 8, 1966,	
l a 45 l. 1228	
TOPIC TAGS: combustion modifier, oxidation mechanism, free radical, oxidation inhibitor, oxidation hinties, october de la contraction de l	
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stainless steel autoclave at 70-80C and 50 atm. Under these sub- the reaction proceeds in the liquid phase. Reaction products were sub- jected to chemical and gas-liquid chromatographic analysis. It was	
jected to chemical and got	
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ACC NR: AP6032585

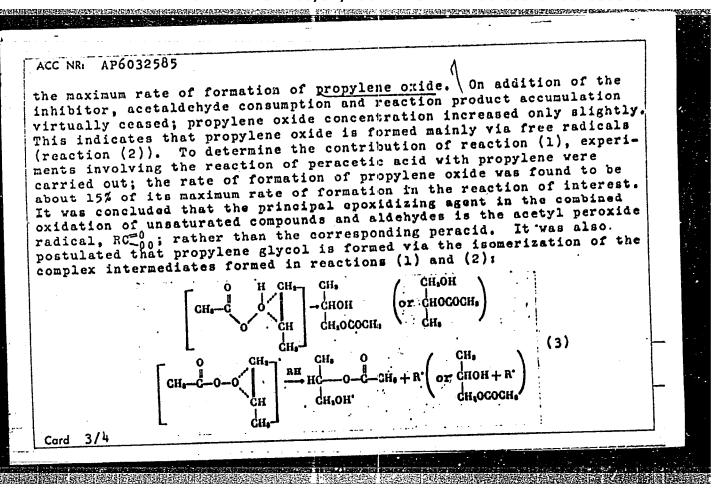
found that propylene oxide and acetic acid are the end products of the reaction; propylene glycol monoacetate is formed along with the propylene oxide. This was confirmed by control experiments in which some propylene oxide was added to the initial reagents. A reaction mechanism was postulated for the formation of propylene oxide:

$$GH_{\theta}COOOH + G_{\theta}H_{\theta} \stackrel{h_{\theta}}{\rightleftharpoons} [GH_{\theta}COOOH \cdot nG_{\theta}H_{\theta}] \stackrel{h_{\theta}}{\rightleftharpoons} G_{\theta}H_{\theta}O + GH_{\theta}COOH$$
(1)

$$CH_{\theta}C \xrightarrow{O} + C_{\theta}H_{\theta} \rightarrow CH_{\theta}C \xrightarrow{O} O \xrightarrow{CH_{\theta}} CH_{\theta}C \xrightarrow{O} CH$$

To determine whether reaction (1) or (2) prevails, experiments were carried out in which an inhibitor (ionol) which reacts with free radicals was added to the reaction mixture at the moment corresponding to

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1 10126-66 047(m) BJP (1) RM ACC NR. AP6011656	SOURCE CODE: UR/0020/66/167/003/0579/05	582
AUTHOR: Blyumberg, E. A.; Valov,		3
(Corresponding member AN SSSR)	gggp (Treffeit khimi heskov fiz	iki
ORG: <u>Institute of Chemical Physics</u> , Akademii nauk SSSR)	Academy of Sciences SSSR (Institut khimi heskoy fiz	
TITLE: Co-oxidation of unsaturated has of synthesizing oxides of olefins	hydrocarbons and other organic compounds as a meti	nod
SOURCE: AN SSSR. Doklady, v. 167		
TOPIC TAGS: organic oxide, olefin, organic synthetic process	aldehyde, methyl ethyl ketone, aromatic hydrocarbo	on,
ABSTRACT: The report describes in	a general terms a procedure for direct derivation of attracted hydrocarbons and other organic compounds	olefin oxi-
dizing more readily than the olefin in	volved. The process defined at products of ox	idation
of organic compounds. Aldehydes, n carbons were employed in systems w	rith propylene, isobutylene, and ethylene. Olefin oxi	des \
Card/2	UDC; 542.91+541.128.2	

	ACC NR. AP6011656 were obtained in all cases. Aldehydes and methylethylketone gave best yields. Peroxi radicals RO ₂ comprised the primary epoxydizing agent. Orig. art. has: I table and 4					
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i der regionale beginner bener bester bester bester bener bener bener bener bester bener bener bener bener ben ACC NR: AP6032585 SOURCE CODE: UR/0062/66/000/908/1334/1339 AUTHOR: Valov, P. I.; Blyumberg, E. A.; Emanuel', N. M. ORG: Institute of Chemical Physics, Academy of Sciences, SSSR (Institut khimicheskoy fiziki Akademii nauk SSSR) TITLE: Kinetics and mechanism of the combined oxidation of propylene and acetaldehyde Izvestiya. Seriya khimicheskaya, no. 6, 1966, SOURCE: AN SSSR. 1334-1339 TOPIC TAGS: combustion modifier, oxidation mechanism, free radical, oxidation inhibitor, oxidation himitics, acutaldingle, olifa ABSTRACT: A study has been made of the kinetics and mechanism of the combined oxidation of an olefin and an aldehyde. This reaction was previously shown to be a step common to the mechanisms of oxidation of unsaturated hydrocarbons and of the combined oxidation of olefins and organic compounds of various classes. The reagents used were acetaldehyde, propylene, and air. The reaction was carried out in a special stainless steel autoclave at 70-80C and 50 atm. Under these conditions the reaction proceeds in the liquid phase. Reaction products were subjected to chemical and gas-liquid chromatographic analysis. It was UDC: 541.124+542.943

ACC NR: AP6032585

found that propylene oxide and acetic acid are the end products of the reaction; propylene glycol monoacetate is formed along with the propylene oxide. This was confirmed by control experiments in which some propylene oxide was added to the initial reagents. A reaction mechanism was postulated for the formation of propylene oxide:

$$CH_{3}COOOH + C_{3}H_{4} \underset{g_{1}}{\overset{k_{1}}{\rightleftarrows}} [CH_{3}COOOH \cdot nC_{3}H_{4}] \xrightarrow{k_{3}} C_{3}H_{4}O + CH_{3}COOH$$
 (1)

$$CH^{2}C \xrightarrow{O} + C^{2}H^{2} \longrightarrow CH^{2}C \xrightarrow{O} O \xrightarrow{CH^{2}} \longrightarrow CH^{2}C \xrightarrow{O} O \xrightarrow{CH^{2}} O \xrightarrow{CH^{$$

To determine whether reaction (1) or (2) prevails, experiments were carried out in which an inhibitor (ionol) which reacts with free radicals was added to the reaction mixture at the moment corresponding to

Card 2/4

ACC NR. AP6032585 the maximum rate of formation of propylene oxide. On addition of the inhibitor, acetaldehyde consumption and reaction product accumulation virtually ceased; propylene oxide concentration increased only slightly. This indicates that propylene oxide is formed mainly via free radicals (reaction (2)). To determine the contribution of reaction (1), experiments involving the reaction of peracetic acid with propylene were carried out; the rate of formation of propylene oxide was found to be about 15% of its maximum rate of formation in the reaction of interest. It was concluded that the principal epoxidizing agent in the combined oxidation of unsaturated compounds and aldehydes is the acetyl peroxide radical, RC_{00}^{-0} ; rather than the corresponding peracid. It was also. postulated that propylene glycol is formed via the isomerization of the complex intermediates formed in reactions (1) and (2): or : chococh. CH4OCOCH4 (3) CH3-CH, CH_OCOCH CH₂OH 3/4

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GIL'EERT, E.N.; PRONIN, V.A.; ARTYUKHIN, P.I.; VALOV, P.M.

Extraction separation of carrier-free Co⁵⁷ from an irradiated target.

Radiokhimiia 7 no.3:358-359 '65. (MIRA 18:7)

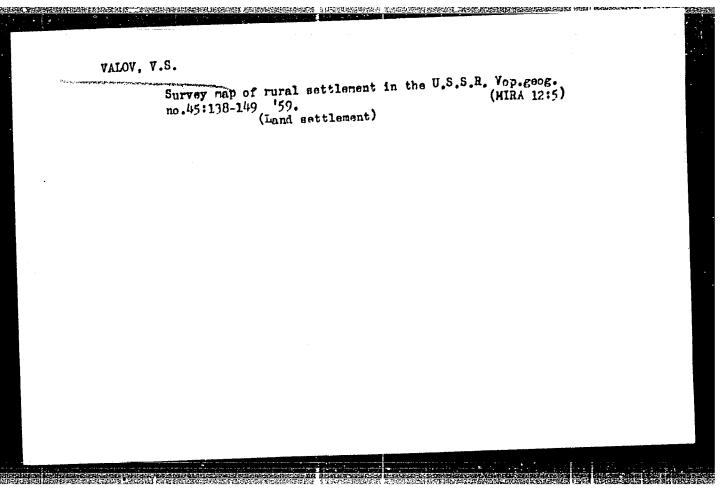
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L 13714-63 B.t. : ACCESSION NR: AT3003080	કું / શતાહત (61) 000 / 000 / 01 જે / 01 જે
AUTHOR: Krasil'shenikov, I. I.; Valov	
MO. 11500, cl. 42k, 20 sub 1 mag. 4	ng heat deformations. Author's Dertificate
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delam izobr. i otkry*tly. Mosecw, Iss	stroyeniye i sredatva avtomatizatsii. Kom. po antr. byuro tekhu. inform., 171, 176 ativity measurement, gas turbine, emitter,
delam izobr. i otkry*tiy. Moseow, iss TOPIC TAGS: heat deformation, radioso detector, counter ABSTRACT: This is a description of a tions occurries between the stationary other engines. Heat deformations	redicective method for measuring heat deforma-
TOPIC TAGS: heat deformation, radioac detector, counter ABSTRACT: This is a description of a tions occurried between the stationary other engines. Heat deformations placed on a revolving part with turn, changes the libedral acids and detector. Since the apparatus country	redicactive method for measuring heat deforma-
TOPIC TAGS: heat deformation, redicace detector, counter ABSTRACT: This is a description of a tions occurried between the stationary other engines. Heat deformations placed on a revolving part with a detector. Since the apparatus of turn, changes the libedral acids and detector. Since the apparatus	redicactive method for measuring heat deforma-

VALOV, P.M.; SOKOLOVA, V.K.; VILENSKIY, A.G.; VAYNSHTEYN, E.Ye.

Unit for measuring Mossbauer spectra. Prib. 1 tekh.eksp. 10 no.5:161-163 S-0 *65. (MIRA 19:1)

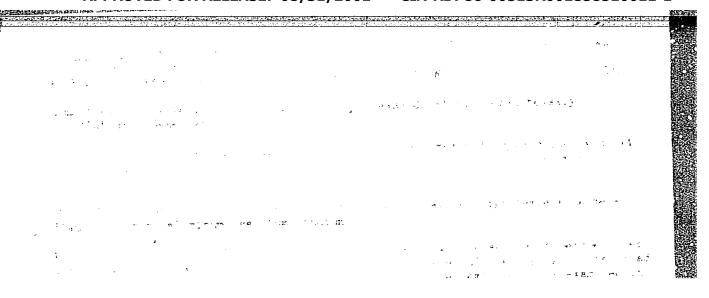
1. Institut neorganicheskoy khimli Sibirskogo otdeleniya AN SSSR, Novosibirsk. Submitted August 22, 1964.

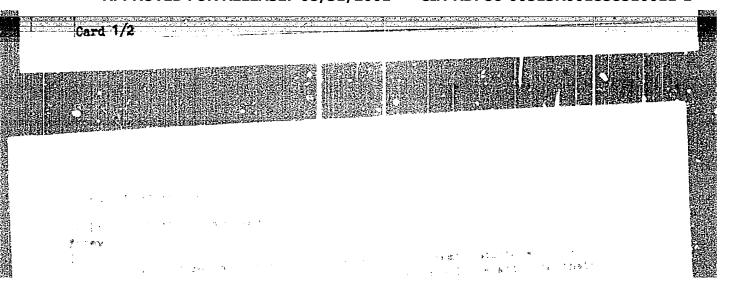
•	VALOV,	Diagrammatic maps of the economic types of agricultural settlement. Diagrammatic maps of the economic types of agricultural settlement. (MIRA 11:7) (Agriculture	

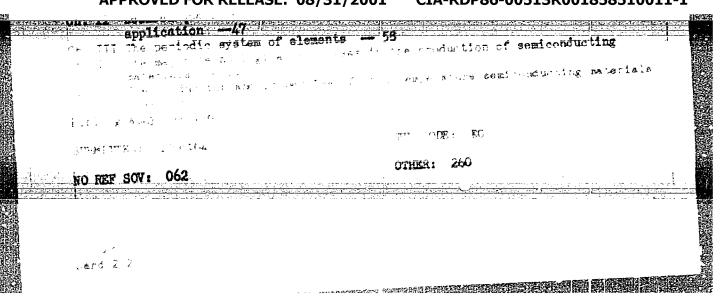


VALOV, V.S.

Changes in the geography of rural settlement in the old populated districts of the Virgin Terfitory; based on the example of Fedorovskiy District, Kustanay Province. Geog. i khoz. no.12:13-18 '63. (MIRA 16:12)







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L 6509-66 EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/GG
ACCESSION NR: AP5019425 UR/0020/65/163/003/0606/0608

AUTHOR: Belle, M. L.; Valov, Yu. A.; Goryunova, A. N.; Zlatkin, L. B.; Imenkov, A. N.; Kozlov, M. M.; Tsarenkov, B. V.

TITLE: Optical and photoelectric properties of single-crystal ZnSiP2

SOURCE: AN SSSR. Doklady, v. 163, no. 3, 1965, 606-608

TOPIC TAGS: optical property, photoelectric property, zinc compound optic material, forbidden band, light polarization, absorption edge, temperature dependence

ABSTRACT: In view of the lack of published data on this compound, the authors have studied the photoelectric and optical properties of n-type single crystals out ined from the gas phase by the method of gas-transport reactions. The spectral sentivity of the photoeonductivity was measured at 77 and 300K using a setup comprising a tungsten incandescent lamp, a light interrupter, a monochromator (IKS-21), amplifier (V2-6), synchronous detector, and electronic potentiometer (EPP-09). The absorption spectrum was measured with the spectrograph and a camera at 300, 77, and 4.2K. In addition, the authors investigated the influence of polarization of the incident light on both the optical and photoelectrical properties. Photoconductivity was observed at incident photon energies 0.5--2.5 ev. At 300K the photoconductivity has a highly peaked maximum at 2.14 ev, and also maxima at 0.8 and 1.0

Card 1/2

L 6509-66 ACCESSION NR:

ev, attributed to impurities. At 77K the maxima shift to 2.19, 1.04, and 0.84 respectively. The spectral photoconductivity curve exhibited also some kinks due to transitions of the electrons from the valence to the conduction band. Polarization began to affect the photoconductivity only above 2 ev, when the photoconductivity became highly sensitive to the direction of the electric vector. This may be due to anisotropy of the crystal. Not all crystals showed a sharp absorption edge, a fact attributed to the number of crystal defects. Where a sharp absorption edge was observed, it showed a dependence on the temperature and on the polarization. The maxima of the photoconductivity and the start of the strong optical absorption were very close to each other, and the sharpness of the absorption edge suggests the presence of direct interband transitions in ZnSiP2. The forbidden band is estimated at 2.13 ev at 300K and between 2.2 and 2.25 ev at 77K. Two absorption bands are observed at 2.23 and 2.27 ev at 77 and 4.2K, and their origin is not clear. This report was presented by L. A. Artsimovich. Orig. art. has: 2 figures

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A. F. Ioffe Akademii nauk SSSR

(Physicotechnical Institute, Academy of Sciences 888R) SUB CODE: OP, SS ENCL:

SUBMITTED: 17Nov64 OTHER: 001

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Card 2/2

L 46579-66 EWT(m)/T/EWP(t)/ETI IJP(c) JG/JD ACC NR: AR6017262 SOURCE CODE: UR/0058/65/000/012/E047/E048 AUTHOR: Goryunova, N. A.; Valov, Yu. A.; Zlatkin, L. B.

11 TITLE: Production and investigation of the properties of single crystals of ZnSiP2, TITLE: Production and Investigation phosphide of gallium phosphide

SOURCE: Ref. zh. Fizika. Abs. 12E365

REF SOURCE: Sb. Fizika. Dokl. k XXIII Nauchn. konferentsii Leningr. inzh.-stroit. in-ta. L., 1965, 18-21

TOPIC TAGS: single crystal growing, alloy system, forbidden band, absorption edge, photoconductivity, spectral energy distribution, valence band, conduction band, electron transition

ABSTRACT: A gas transport method was used to obtain light red p- and n-type needlelike $ZnSiP_2$ crystals up to 10 mm long, and plate-like crystals measuring 6 x 1.5 x 0.1 - 0.3 mm. The crystal growth direction [111] coincides with the tetragonal c axis. Measurements were made of the absorption edge at 300, 77, and 4.2K of the spectral sensitivity of the photoconductivity at 300 and 77K, and of the dependence of the photoconductivity on the polarization of the exciting radiation. The sharp photoconductivity and absorption edge gives grounds for assuming the presence of direct transitions of the electrons from the valence band to the conduction band. The width of the forbidden band at 300° is ~2.13 ev. A. Porotikov. [Translation of abstract]

I'B CODE: 20

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ACC NR: AF6036797

(A)

SOURCE CODE: UR/0363/66/002/011/2078/2079

AUTHOR: Bychkov, A. G.; Plechko, R. L.; Valov, Yu. A.; Goryunova, N. A.

ORG: Physico-technical Institute im. A. F. Ioffe, AN SSSR (Fiziko-tekhnicheskiy institut AN SSSR)

TITIE: Some physical properties of the semiconducting compound CdSiP2

SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 11, 1966, 2078-2079

TOPIC TAGS: semiconductor alloy, cadmium containing alloy, silicon containing alloy, phosphorus alloy

ABSTRACT: Experiments were carried out on the production of single crystals of CdSiP₂ from metallic solution melts, as well as with the aid of chemical transport reactions, in which the source of the material was a ternary compound obtained from the solution melt, and in which the transport agent was iodine. By the solution method there were produced concrations of thin flat crystals, from which were cut single crystal samples with dimensions of $2 \times 1.5 \times 0.1$ mm. By chemical transport reactions, there were produced thin needles with a length up to 10 mm, and thin plates $(4 \times 1.5 \times 0.05 \text{ mm})$. The crystals of CdSiP₂ are soluble in concentrated acids and have a rather low thermal stability (their dissociation in vacuum at a pressure of 5×10^{-7} mm Hg starts at a

Card 1/2

UDC: 546.48'28'181:537.311.33

ACC NR: AP6036797

temperature of 450°C). All of the samples were found to have a conductivity of the n-type. In the samples grown from the solution melt, the following properties were determined (at room temperature): conductivity $0 \approx 5 \times 10^{-3}$ ohm $^{-1}$ -cm $^{-1}$; mobility of the electrons u = 150 cm $^{-2}$ -sec $^{-1}$; concentration of current carriers $n = 10^{15}$ cm $^{-3}$. With an increase in temperature there is a sharp drop in the Hall constant. With an with an increase in temperature, the conductivity increases, but the mobility of the current carriers falls, starting at 400° K. The samples obtained with the aid of chemical transport reactions had a conductivity of the order of 10^{-0} - 10^{-7} ohm $^{-1}$ -cm $^{-1}$. An investigation of the spectral distribution of the photoconductivity at room temperature was made for both types of samples. For crystals grown from a solution melt, the was made for both types of samples. For crystals grown from a solution melt, the maximum of photoconductivity was observed at a photon energy of 2.5 eV, while for maximum of photoconductivity was observed at a photon energy of 2.5 eV. The width of the crystals produced by chemical transport reactions, it was at 2.38 eV. The width of the forbidden zone for CdSiP2 was determined, respectively, as 2.34 eV for crystals grown from solution melts, and 2.25 for crystals produced with the aid of chemical transport reactions. Orig. art, has: 1 figure.

SUB CODE: 20,07/ SUBM DATE: 25Jan66/ ORIG REF: 003/ OTH REF: 002

Card 2/2

L 08335-67 EWT(m)/EWP(t)/ETI IJP(c) ACC NR. AR6017150 SOURCE CODE: UR/0275/66/000/001/B009/B009 AUTHOR: Goryunova, N. A.; Valov, Yu. A.; Zlatkin, L. B. 44 TITLE: Generation and analysis of the properties of ZnSiP SOURCE: Ref. zh. Elektronika i yeye primeneniye, Abs. 1865 REF SOURCE: Sb. Fizika. Dokl. k XXIII Nauchn. konferentsii Leningr. inzh.-stroit. in-ta. L., 1965, 18-21 TOPIC TAGS: single crystal, semiconductor crystal, crystal absorption, single crystal growth, crystal theory, gallium arsenide TRANSLATION: Using the gas transport method, light red, needle-shaped, ZnSiP2 crystals up to 10 mm in length, and plate-like crystals 6 × 1.5 × 0.1 to 0.3 mm were obtained. The direction of crystal (111) growth coincides with the tetragonal axis c. The following parameters were measured: the absorption region at 300, 77 and 4.20K, the spectral sensitivity of photoconductivity at 300 and 77°K. A relation between the photoconductivity and the polarization of the excitation radiation was found to exist. Sharp ly defined regions of photoconductivity and absorption suggests direct transitions of electrons from the valency into the conductivity zone. The forbidden zone has a width of approximately 2.13 ev at 300°K. SUB CODE: 539.293:546.47.12818

VALOV, Yu.N., inzh.

Use of insulating transformer oils in a municipal electric power distribution network. Elek. sta. 35 no.2:51-55 F 164. (NIRA 17:6)

SOURCE CODE: UK/0363/66/002/011/1966/1969 (N)ACC NRI AF6036786 AUTHOR: Loshakova, G. V.; Plechko, R. L.; Vaypolin, A. A.; Pavlov, B. V.; Valov, Yu. V.; Goryunova, N. A. ORG: Physicotochnical Institute im. A. F. Ioffe, AN SSSR (Fiziko-tekhnicheskiy institut AN SSSR); Kiev Pedagogic Institute (Kievskiy pedagogicheskiy institut) TITLE: Production and some properties of the semiconductor compounds ZnSnP2 and SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, nc. 11, 1966, CdSnP2 1966-1969 TOPIC TAGS: zinc containing alloy, tin containing alloy, cadmium containing alloy, phosphorus containing alloy, semiconductor alloy ABSTRACT: Previous attempts to obtain ZnSnP2 from a mixture of components taken in stoichiometric ratio yielded a product containing a mixture of phases, including the ternary compound ZrSnP2, but also zinc and tin phosphides. The present article describes a method for producing single phase ZnSnP2 by crystallization from a dilute . solution in tin. The initial weighed portion consisted of zinc, tin, and phosphorus, in which the tin was taken in large excess over the stoichicmetric amount. After heating to a temperature of 870°C and slow cooling in an evacuated quartz ampoule, the UDC: 537.311.33__ Card 1/2

ACC NR: AF6036786

ZnSnP₂ was separated from the tin. The remaining thin film of tin on the ZnSnP₂ crystals was dissolved in concentrated nitric acid. The crystals of ZnSnP₂ were a dark gray color, and were 3 x 1, 5 x 0.5 mm in size. Analogous experiments with CdSnP₂ showed that it could be produced from a dilute solution in cadmium. X ray analysis of the compounds obtained made it possible to determine the type of crystal structure, the lattice constants, and the microhardness; these values are listed in tabular form. It was shown also that ZnSnP₂ has a considerable amount of chemical resistance to a number of mineral acids, including nitric, hydrochloric, sulfuric, and hydrofluoric, while CdSnP₂ has very little resistance to these acids. Orig. art. has: 1 figure and 2 tables.

SUB CODE: 11, 20/ SUBM DATE: 23Dec65/ ORIG REF: 001/ OTH REF: 002

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CZECHOSLOVAKIA UDC 616-007.21:616.5-085.361.43(:547.92)-039.77

STERBA, R.; VALOVA, B.; Research Institute of Natural Drugs (Vyz-kumny Ustav Prirodnich Leciv), Prague - Hloubetin, Director (Redi-

"Configuration and Cosmetic Effects of Steroid Mixtures."

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Abstract /Authors' English summary modified 7: Changes in the appearance of women using peroral contraceptive estro-progestational mixtures are described and documented photographically. The mixtures were administered at a higher dose in primary mammary hypoplasia and in secondary weakness of the breasts with a surprisingly good effect. The result induced the authors to use tri-hormonal estro-progestational-anabolic mixtures in the treatment of severe inanition and weakness in women following psychic traumatism and physical exhaustion. Good effects in the treatment of acne vulgaris and postulosa were also obtained. 3 Figures, 1 Table, 4 Western, 4 Czech references. (Manuscript received Jun 66).

-VALOVA, -13-

STERBA, Rudolf

CZECHOSLOVAKIA

MD

(Presumably) Research Institute for Natural Medicaments (Vyzkumny ustav prirodnich leciv), Prague; Director: Z. Cekan, Dr.

Prague, <u>Prakticky Lekar</u>, No. 19, 1962, pp 842-846
"Final Report on Clinical Study of New Corticoids"
Co-authors:

KUCHEL, Oto, MD, same as above, or III Internal Clinic of the Faculty of General Medicine of KU (Charles University - Marlova Universita), Prague; Director: Academician J. Charvat VALOVA, Blanka, Grad. mathematician, same as above

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One year experience with the preparation Antigest. Cesk.

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(HYPERTENSION, PULMONARY)

(PULMONARY HEART DISEASE)

(BLOOD CINCULATION)

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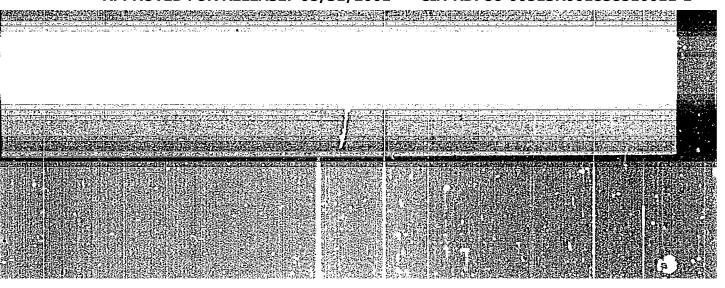
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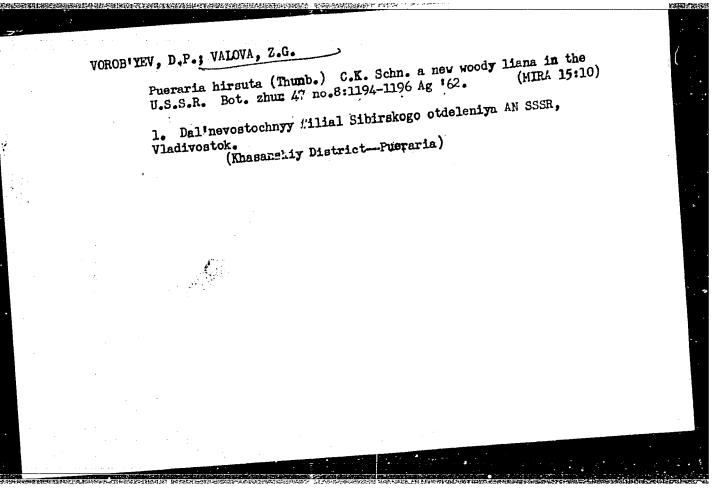
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